Answers for Applications Practice Chapter 5 T32

1. D:{0,1,2,3… R:{0,$1.50, $3.00, $4.50…} see graph below
2. D;{0,1,2,3…} R:{$40, $55, $70, $85…}see graph below
3. A. graph-see graph below

b. y intercept 400- this is the starting distance from Denver.

x intercept: 8 This is the time required to reach Denver. ( 8hours)

1. 1945-50 1.8 nations per year

1950-60 3.9 nations per year

1960- 75 3 nations per year

The UN grew at the greatest rate from 1950-1960

1. -4 the oven cools at a rate of 4n degrees per minute.
2. Y= 9x and graph
3. a. y= 1.5x + 10

b.The y intercept is 10 this is the cost for zero hours, or the initial rental fee. The slope is 1.5. This is the rate of change of the cost of $1.50 per mile.

c. $19

1. y=-5x+250; 125 m

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1. 3, $39
2. 6, $19.50
3. 14, $410
4. The company with the $200 set up fee is cheaper if more than 14 jerseys are purchased
5. 23 in and 18 inches
6. 3 adults and 4 children
7. 12 lbs. of apples and 15 lbs. of pears
8. 6 large 8 small
9. No Shanna’s time is given by y=190-8x and Marias time is given by y= 175-8x where x is the number of years after 2003. The graphs are two parallel lines. There is no solution, so the two lines will never be equal.
10. Yes Jordan’s distance is given by y=10x+4 and Times distance is given by y=12x where x is the number of hours since Tim left the house. This is a consistent and independent system, so there is a solution. Tim will catch up to Jordan in 2 hours.
11. 4x+5y< 18 where x is the number of pounds of almonds and y is the number of pounds of cashews. (hint; find intercepts—graph line and determine combinations) Possible combinations 2lb almonds 2 lb. cashews; 3lb almonds, 1 lb. cashews and graph
12. 5x+8y< 100 where x is the number of child shirts and y is the number of adult shirts see hint above possible combinations 16 child shirts, 2 adult shirts ; 8child shirts 6 adult shirts GRAPH to see combinations only 1st quadrant needed